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(54) Title: NOVEL PEPTIDE INHIBITOR OF HIV FUSION THAT DISRUPTS THE INTERNAL TRIMERIC COILED-COIL OF GP41

(57) Abstract: This invention relates to a novel peptide inhibitor of HIV fusion that disrupts the internal trimeric coiled-coil of gp41, to a pharmaceutical composition that comprise this inhibitor, and to methods of treating immunodeficiency disease, especially HIV, that employ such a pharmaceutical composition.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/03794

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 38/00
US CL : 514/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,150,088 A (CHAN et al.) 21 November 2000 (21.11.2000), entire document, especially col. 10, lines 33-37 and 55-59 (modification/overlap of N36 or C34 of gp41 to create inhibitor of HIV).	1-7, 9-15, 17-18, 20
Y	US 2002/0077284 A1 (ECKERT et al.) 20 June 2002 (20.06.2002), entire document, especially paragraphs 0012, 0095 (variants of C34 to disrupt binding to N36 and thus inhibition gp41 (HIV) inhibitory activity).	1-7, 9-15, 17-18, 20

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

15 November 2004 (15.11.2004)

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INTERNATIONAL SEARCH REPORT

PCT/US04/03794

Continuation of Box I Reason 2:

Claims 1-7, 9-15, 17-18, and 20 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because the claims are indefinite for the following reason(s): no searchable structure/sequence (i.e. corresponding to the claimed variants of known SEQ ID NO: 1) was claimed, thus only a general search of the invention as to these claims could be conducted.

Continuation of B. FIELDS SEARCHED Item 3:

East (USPTO-Internal Patent/Publication); STIC (USPTO) Sequence DB search of SEQ ID NOS: 1 (wildtype) and 3 (only SEQ's claimed; hand-entry search as CRF still not in compliance). Based on the prior art of record, and databases searched, it is noted that SEQ ID NO: 3 (substituted variant of SEQ ID NO: 1) was found to be free of the prior art.